

FIG. 1

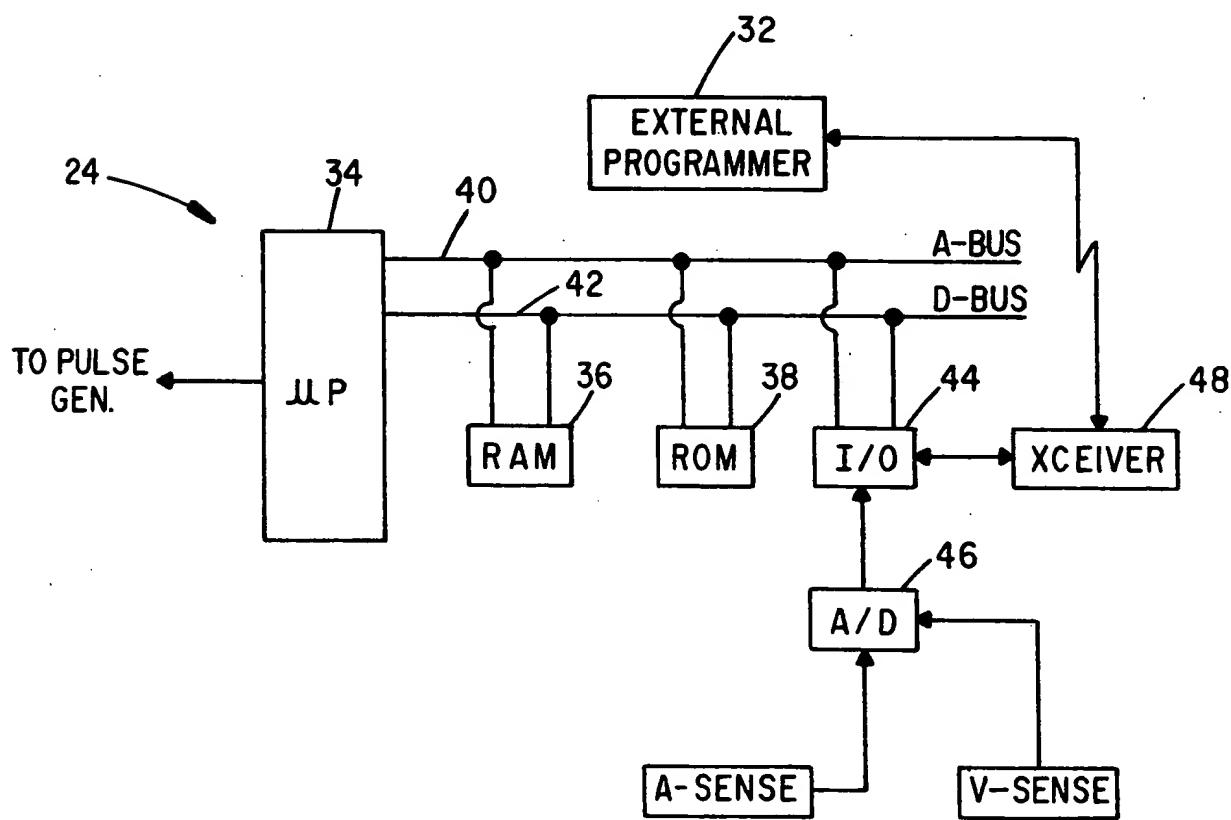


FIG. 2

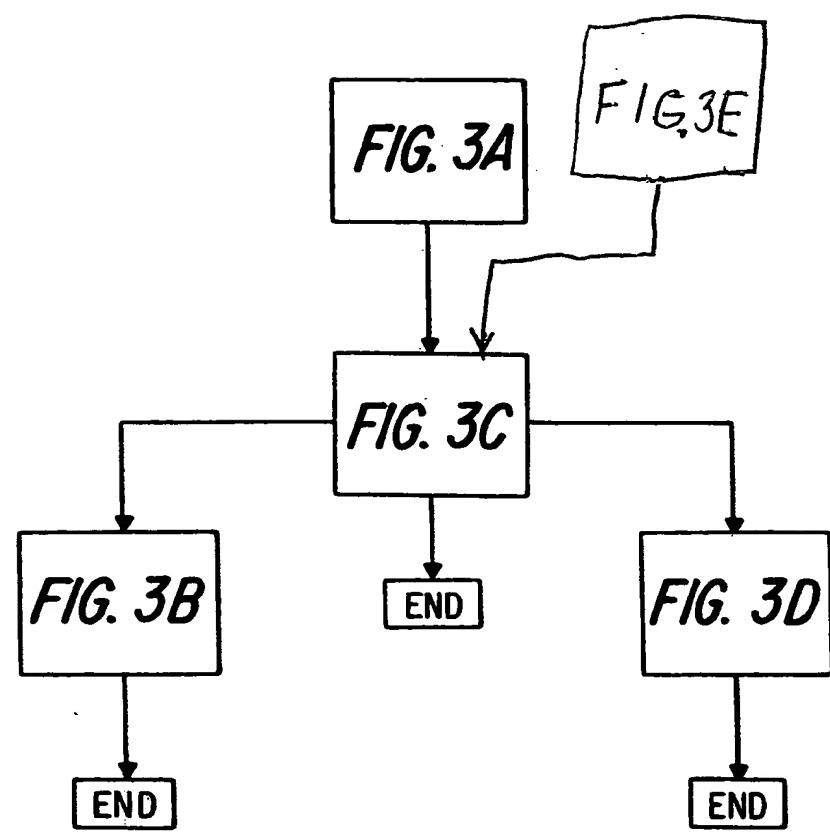


FIG. 3

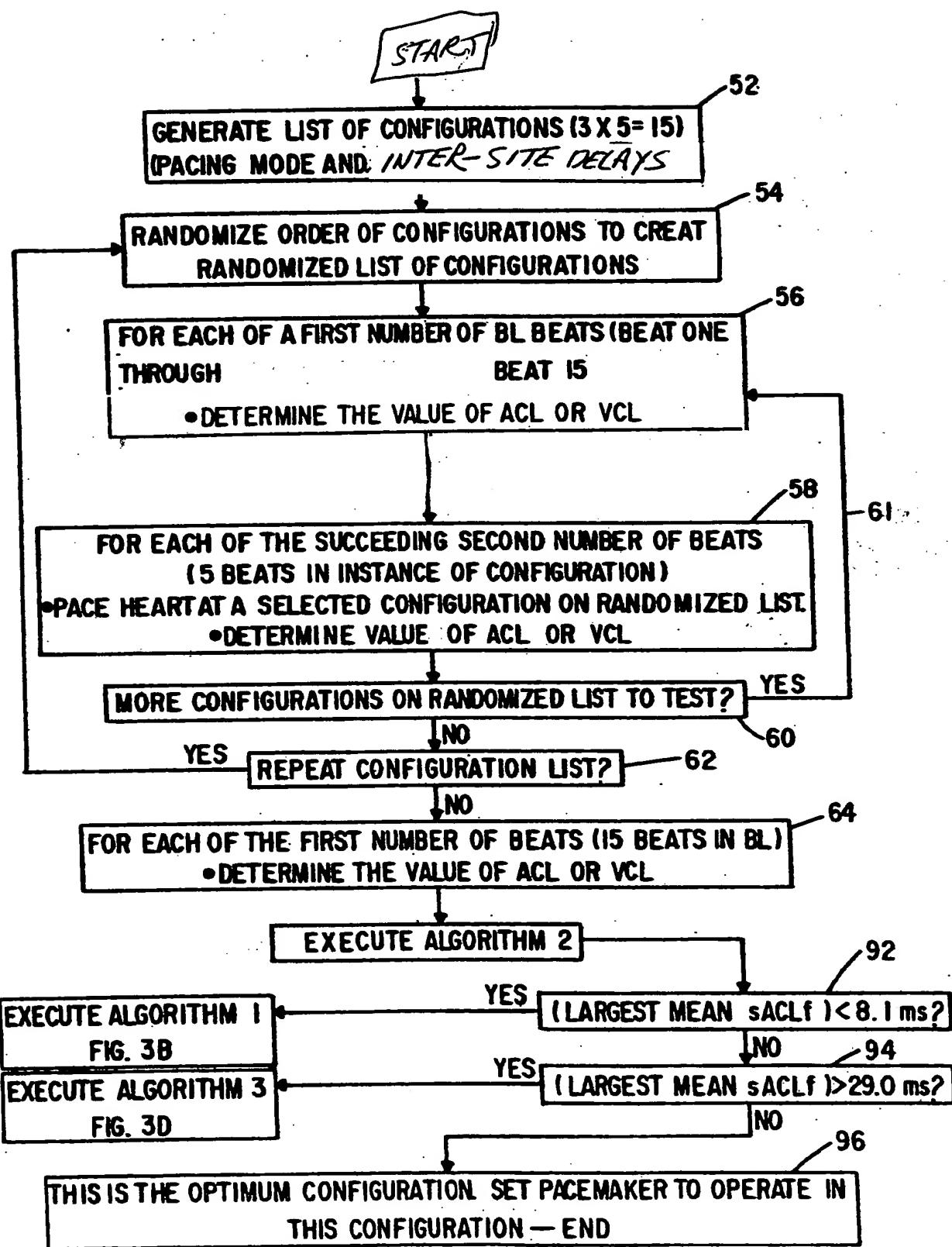
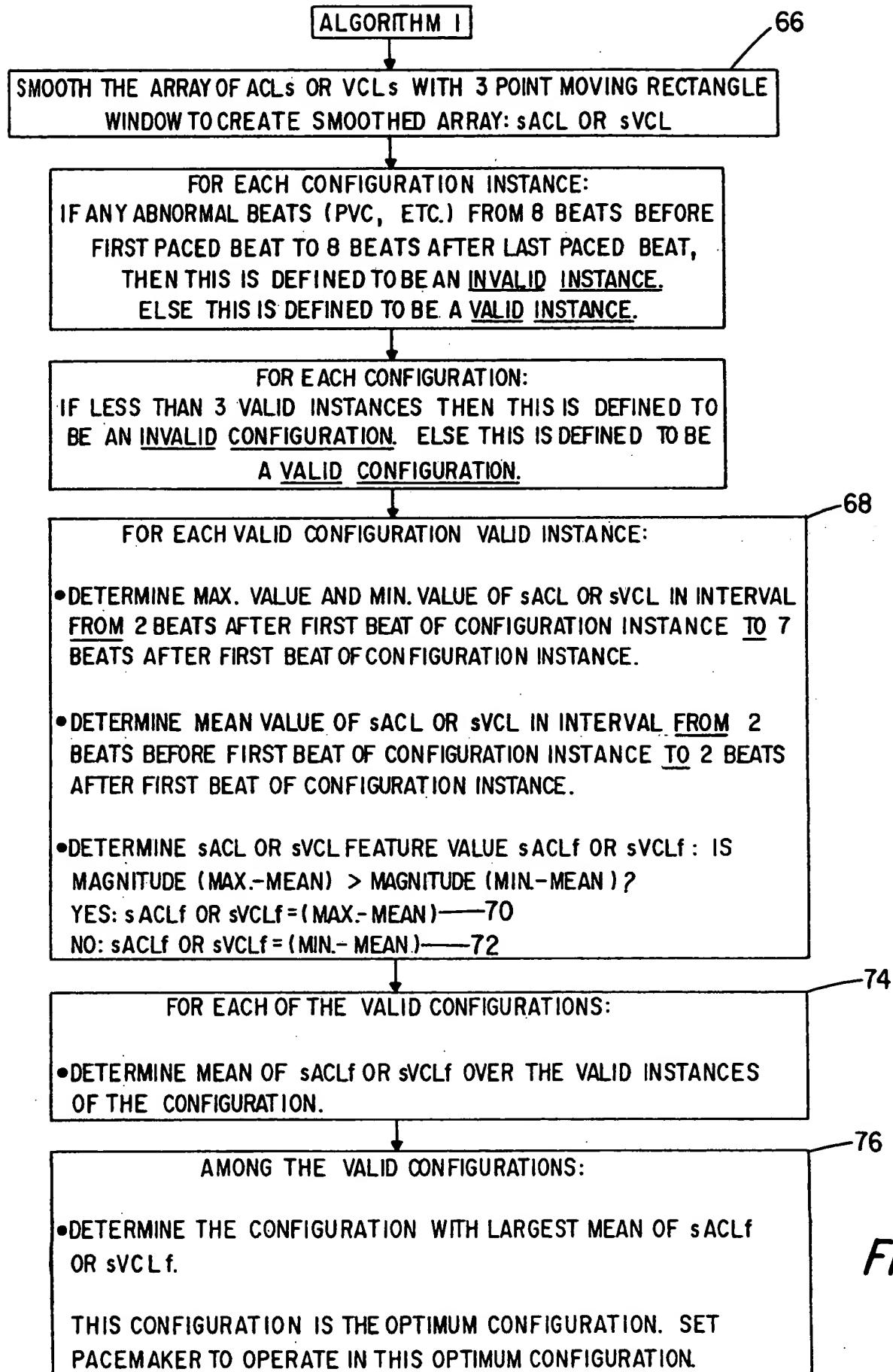


FIG. 3A



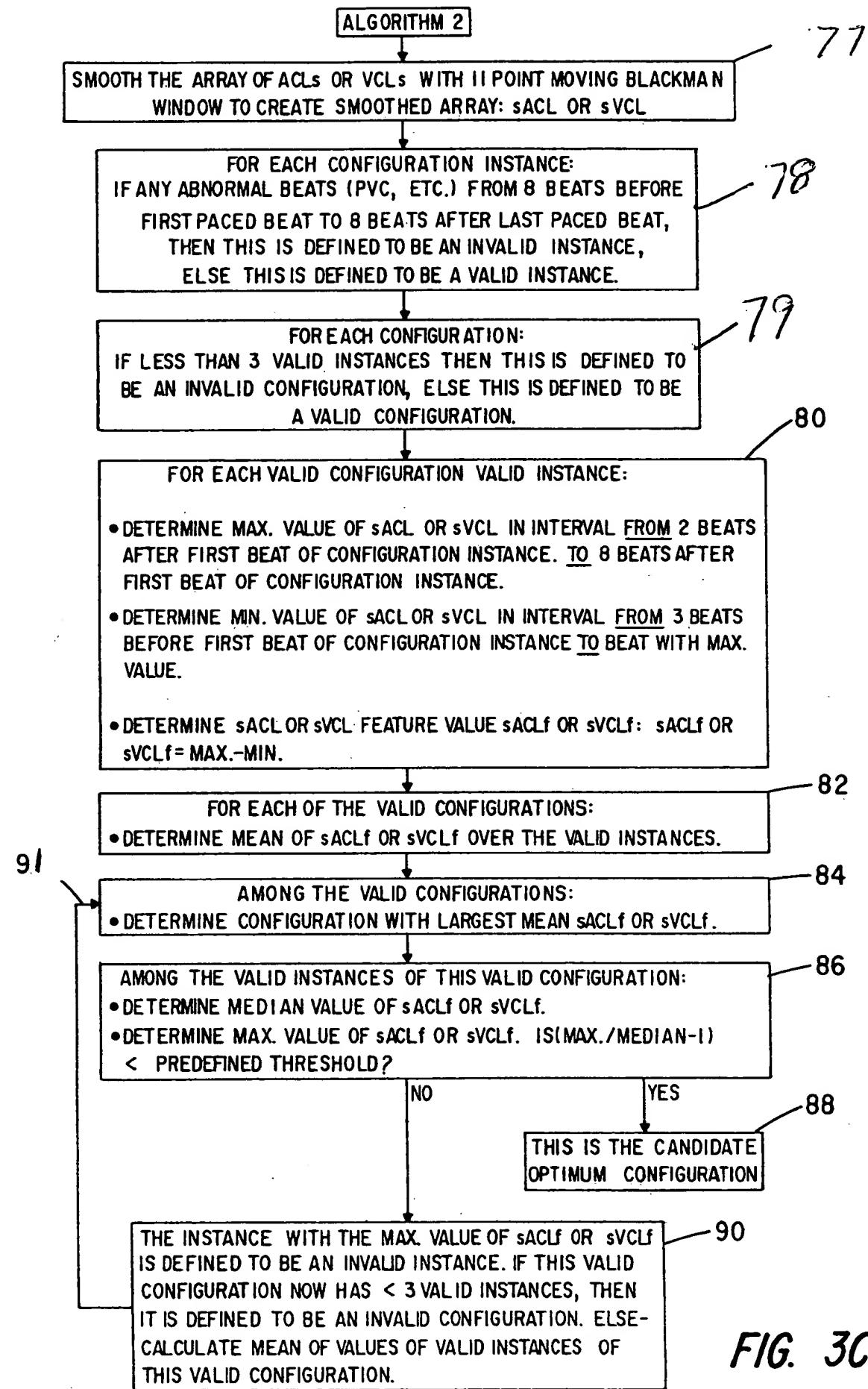


FIG. 3C

ALGORITHM 3

SMOOTH THE ARRAY OF ACLs OR VCLs WITH 11 POINT MOVING BLACKMAN WINDOW TO CREATE SMOOTHED ARRAY: sACL OR sVCL

FOR EACH CONFIGURATION INSTANCE:
 IF ANY ABNORMAL BEATS (PVC, ETC.) FROM 8 BEATS BEFORE FIRST PACED BEAT TO 8 BEATS AFTER LAST PACED BEAT, THEN THIS IS DEFINED TO BE AN INVALID INSTANCE, ELSE THIS IS DEFINED TO BE A VALID INSTANCE.

FOR EACH CONFIGURATION:
 IF LESS THAN 3 VALID INSTANCES THEN THIS IS DEFINED TO BE AN INVALID CONFIGURATION, ELSE THIS IS DEFINED TO BE A VALID CONFIGURATION.

FOR EACH VALID CONFIGURATION VALID INSTANCE:

- DETERMINE MAX. VALUE OF sACL OR sVCL IN INTERVAL FROM 1 BEAT AFTER FIRST BEAT OF CONFIGURATION INSTANCE. TO 8 BEATS AFTER FIRST BEAT OF CONFIGURATION INSTANCE.
- DETERMINE MIN. VALUE OF sACL OR sVCL IN INTERVAL FROM 3 BEATS BEFORE FIRST BEAT OF CONFIGURATION INSTANCE TO BEAT WITH MAX. VALUE.
- DETERMINE sACL OR sVCL FEATURE VALUE $sACL_f$ OR $sVCL_f$: $sACL_f = MAX. - MIN.$

FOR EACH OF THE VALID CONFIGURATIONS:

- DETERMINE MEAN OF $sACL_f$ OR $sVCL_f$ OVER THE VALID INSTANCES.

AMONG THE VALID CONFIGURATIONS:

- DETERMINE CONFIGURATION WITH LARGEST MEAN $sACL_f$ OR $sVCL_f$.

NO

AMONG THE VALID INSTANCES OF THIS VALID CONFIGURATION:

- DETERMINE MEDIAN VALUE OF $sACL_f$ OR $sVCL_f$.
- DETERMINE MAX. VALUE OF $sACL_f$ OR $sVCL_f$. IS(MAX./MEDIAN-1) < PREDEFINED THRESHOLD?

YES

THIS IS THE OPTIMUM CONFIGURATION. SET PACEMAKE TO OPERATE IN THIS CONFIGURATION.

100

97

98

FIG. 3D

00020000-0000-0000-0000-000000000000

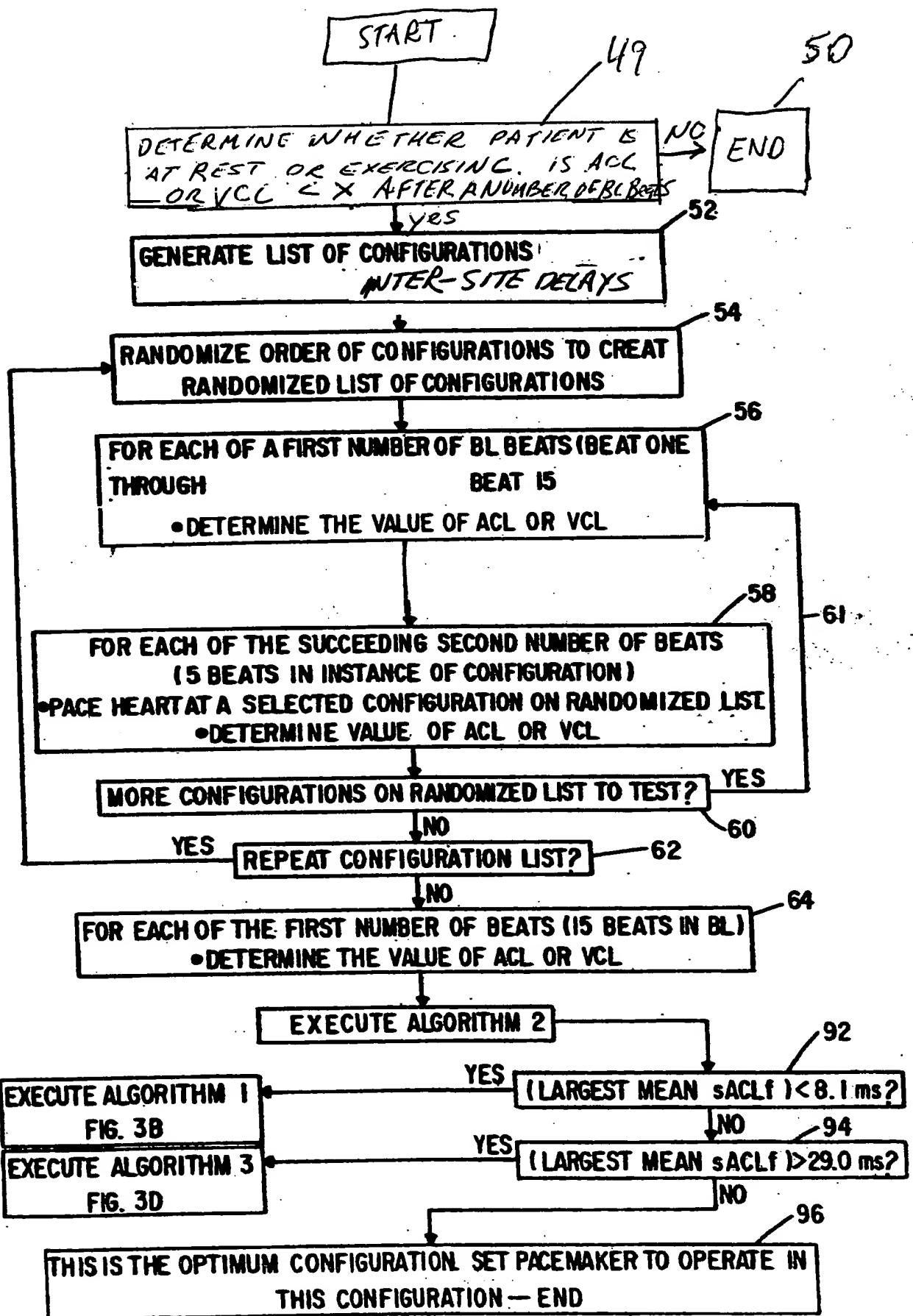


FIG. 3E

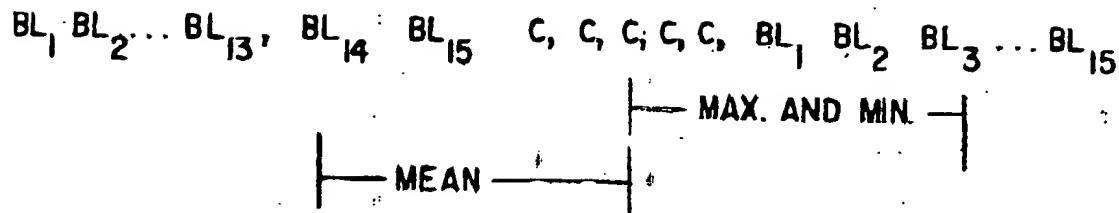


FIG. 4

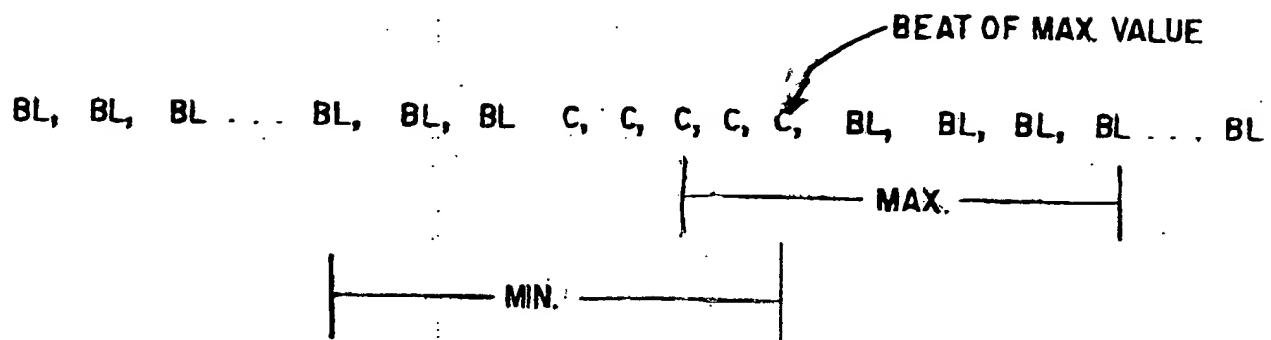


FIG. 5

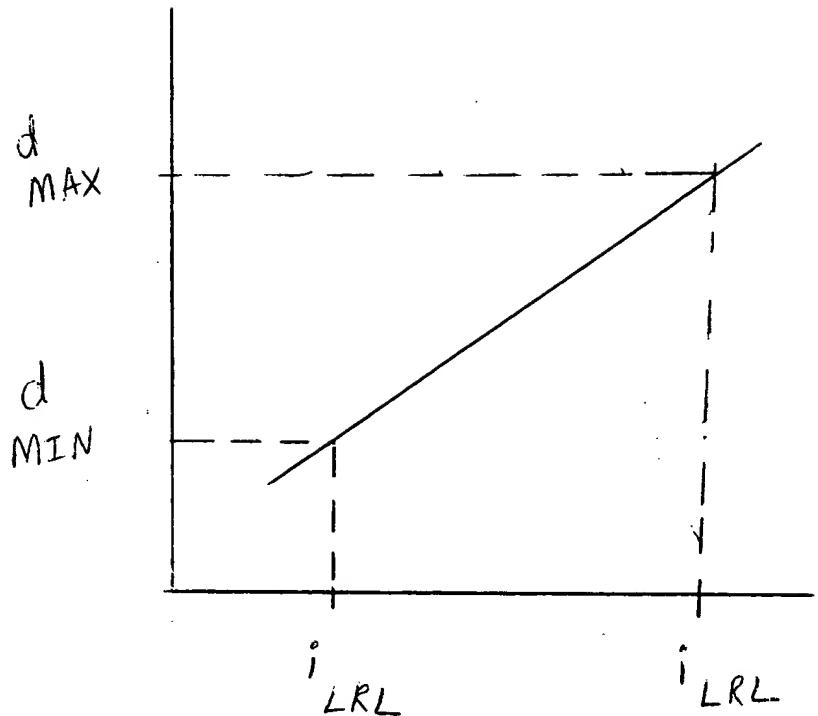


Fig 6